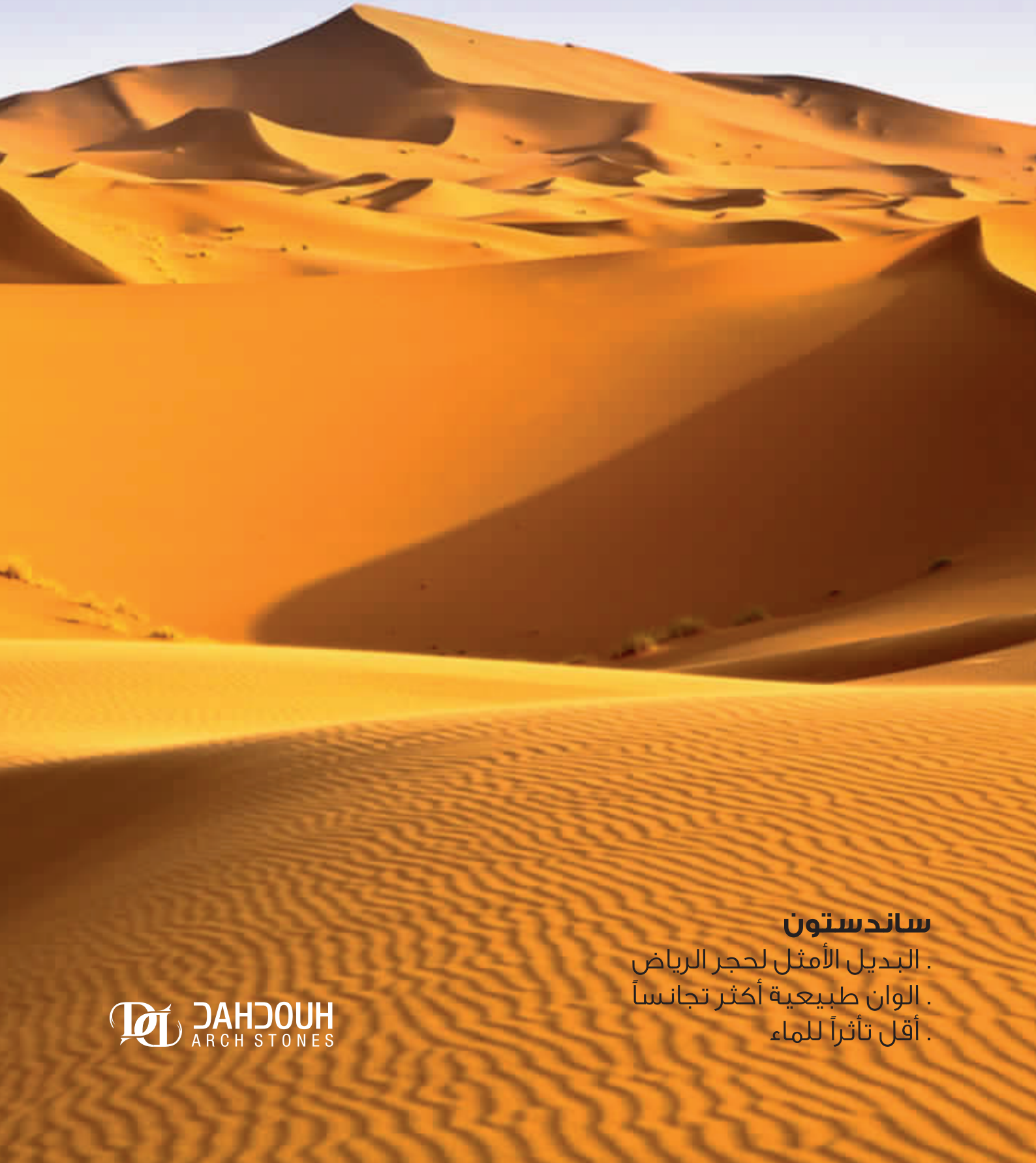
SANDSTONE

Like the natural stone



ساندستون

. البديل الأمثل لحجر الرياض
. الوان طبيعية أكثر تجانساً
. أقل تأثراً للماء

DAHDOUH
ARCH STONES

WALL STONE TILES

We, Dahdouh Factory for artificial stone, are proud of having locally making our products as in regards to expertise and raw materials, because we are constantly improving our production to meet our customer taste, adopting the up to date technologies in the field of architecture and the raw materials.

نحن في مصنع دحدوح للحجر الصناعي نفخر بصناعة منتجاتنا محليا من حيث الخبرات والمواد الخام كما أننا نطور صناعتنا بشكل دائم بما يلائم ذوق عملائنا وبإتباع أحدث تقنيات هندسة العمارة ومواد البناء الحديثة

SANDSTONE

It is an artificial architectural stone which looks like the natural stone, while it is much better in its most physics specifications.

More resistant to the environmental aspects

Absorb less water

Variant color choices and more harmonious

Very easy mechanical way of installation

Suitable to cutting, pruning, and punching

ساندستون

حجر معماري صناعي يشبه الحجر الطبيعي و يتفوق عليه
في معظم الخصائص الفيزيائية

أكثر مقاومة لعوامل البيئة

أقل امتصاص للماء

خيارات ألوان متعددة و أكثر انسجام

طريقة تركيب ميكانية بغاية السهولة

قابل للقص والتثقيب والصقل

New Product

2019

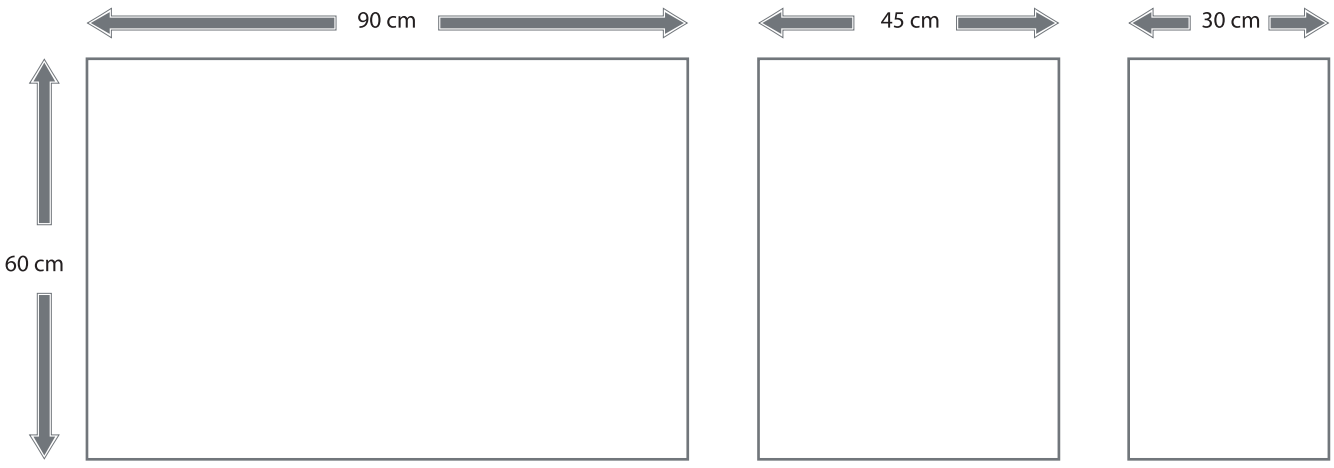
SANDSTONE

DAHDOUH
ARCH STONES

Colors Available

G99	Y75	R75	B99
G60	Y50	R130	B60
G20	Y25	R110	B20
G05	Y05	R05	B05

Size Available



DAHDOUH
ARCH STONES

Technical Data Sheet of SANDSTONE

DAHDOUH Arch Stone collection of manufactured stone veneers is engineered to meet or exceed specifications
for all major code approvals. Manufacturers who offer "just like" or a so-called "equivalent" to DAHDOUH ARCH STONE® manufactured stone veneer products should be asked to document claims of test results and research reports.
Complete copies of these dahdouh arch stone® manufactured stone veneer building code evaluation reports, research
reports, approvals and listings are available upon request:

format : 900x600x30 mm 600x300x30 mm
900x300x30 mm 600x450x30 mm

color : Cream - Beige - Yellowish - Golden

- test method : SASO 1247 (GS 1048)
- Test report : ON Absorption & density & Modulus of Rupture & Compressive Strength & Water Absorption @24 hours
- AL HOTY _ STANGER

MATERIALS

Cement	portland NO 1 standard 2009/1914	
Sand silica	ASTM C 144 or C 33 & Silica sand	
grit	Volcanic basalt stones	
color	Metal oxide colors	German industry
TEST REPORT	**TEST METHOD: ASTM C 2018' 1195**	**AL HOTY .STANGER**
Density	TEST METHOD : ASTM C 97/C97 M-17	Average 2535 kg/m3
Water Absorption @24Hours	TEST METHOD : ASTM C 97/C97 M-18	Average %5.2 depending on texture
Compressive Strength	TEST METHOD : ASTM C 170/ C170 M-17	Average 90 (MPa)
Flexural Strength	WET CONDITION /Tested in accordance with ASTM C 1195	Average 5.8 (MPa)
Modulus of Rupture	TEST METHOD : ASTM C 99 / C 99 M-18	Average 4.6 (MPa)

Note: Local building codes may vary; always check with your local building code authority prior to installation.
Results of tests conducted by an independent testing agency confirm that the dahdouh arch stone® collection of

To learn more about Dahdouh Arch Stone
www.dahdouh.me
P.O. Box 21992 Riyadh 11485 Saudi Arabia
Tel: 00966118100030
Mail: info@dahdouh.me

AL HOTY - STANGER	TEST REPORT	Our Ref.: RD-C-10678/1
الحوطي ALHOTY ستانجر STANGER ®	DETERMINATION OF ABRASION RESISTANCE ON SANDSTONE	Date: 24 March 2019
	TEST METHOD: SASO 1247 (GS 1048)	Page: 1 of 1

Client	:	DAHDOUH ARCH STONE FACTORY
Project	:	Product Control
Sample ID.	:	Sandstone
Source/Location	:	Sample as provided by Client
Test Required	:	Abrasion Resistance
Test Method Variation:		None

Date Sample Received	:	17 March 2019
Date Sample Tested	:	23 March 2019
Sample Prepared by	:	Ram/Ayub
Sampling Method	:	-
Testing Performed by	:	Ajit
Testing Conducted at	:	Jeddah Lab

RESULTS:

Specimen No.		1	2	3
Length	mm	71.2	71.1	71.2
Width	mm	71.3	71.0	71.2
Thickness Before Abrasion	mm	36.38	35.88	35.61
Thickness After Abrasion	mm	36.00	35.64	35.39
Loss of Thickness	mm	0.38	0.24	0.22
Average Loss of Thickness	mm		**0.28**	

Requirements: SASO 1246/1996

The average thickness loss shall not exceed 3mm.

NOITE:

The above test was sub-contracted to our Jeddah Lab

RIYAZ A. SHAIKH
Acting Regional Manager – **Central Region**
For AL HOTY-STANGER LTD.

شركة الحوطي لستانجر المحدودة ALHOTY STANGER LTD. CO. الرياض RIYADH C.R. 2051002999 مختبرات و فحص المواد المستقلة Independent Laboratories & Materials Testing

ADRIANO S. NAOE
Lab Supervisor (C&S Dept.)
For AL HOTY-STANGER LTD.

F-5

AL HOTY - STANGER

الحوطي ALHOTY ستانجر STANGER

TEST REPORT

DETERMINATION OF WATER ABSORPTION ON SANDSTONE

TEST METHOD: ASTM C 97 / C 97 M-18

Our Ref.: RD-C-10678
Date: 21 March 2019

Client	:	DAHDOUH ARCH STONE FACTORY
Project	:	Product Control
Sample ID.	:	Sandstone
Nominal Size	:	140x140x36mm
Source/Location	:	Sample as provided by Client
Test Required	:	Water Absorption
Equiptment Used	:	D. Balance: 112401746; Oven: 14F117

Date Sample Received	:	17 March 2019
Date Sample Tested	:	18 – 19 March 2019
Sample Prepared by	:	Ram/Ayub
Sampling Method	:	-
Testing Performed by	:	Ram/Ayub
Testing Conducted at	:	Riyadh Lab
Test Method Variation	:	None

RESULTS:

Test Sample No.	Oven Dry Weight (g)	SSD Weight (g)	Water Absorption (%)
1	1496.0	1581.0	5.7
2	1441.6	1515.0	5.1
3	1450.6	1523.0	5.0
4	1441.0	1513.0	5.0
5	1446.5	1519.0	5.0
		Average:	**5.2**

Requirement of ASTM C 568 / C 568M-15

Specification for Limestone Dimension Stone for Water Absorption

Water Absoprtion (%)

- I (Low Density) Maximum = 12.0 %
- II (Medium Density) Maximum = 7.5 %
- III (High Density) Maximum = 3.0 %

RIYAZ A. SHAIKH
Acting Regional Manager – **Central Region**
For AL HOTY-STANGER LTD.

ADRIANO S. NAOE
Lab Supervisor (C&S Dept.)
For AL HOTY-STANGER LTD.

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AL HOTY - STANGER	TEST REPORT	Our Ref.: RD-C-10678
الحوطي ALHOTY ستانجر STANGER	DETERMINATION OF DENSITY ON SANDSTONE	Date: 21 March 2019
	TEST METHOD: ASTM C 97 / C 97 M-17	Page: 2 of 4

Client	:	DAHDOUH ARCH STONE FACTORY
Project	:	Product Control
Sample ID.	:	Sandstone
Nominal Size	:	140x140x36mm
Source/Location	:	Sample as provided by Client
Test Required	:	Density
Equiptment Used	:	D. Balance: 112401746; Oven: 14F117

Date Sample Received	:	17 March 2019
Date Sample Tested	:	18 – 19 March 2019
Sample Prepared by	:	Ram/Ayub
Sampling Method	:	-
Testing Performed by	:	Rommel/Ram
Testing Conducted at	:	Riyadh Lab
Test Method Variation	:	None

RESULTS:

Test Sample No.	Weight Received (mm)	Weight in Water (g)	Density (kg/m³)
1	1496.0	889.0	2465
2	1441.6	879.0	2562
3	1450.6	880.0	2542
4	1441.0	878.0	2560
5	1446.5	878.4	2546
		Average:	**2535**

Requirement of ASTM C 568 / C 568M-15
Specification for Limestone Dimension Stone for Density
Density (kg/m³)

- I (Low Density) Minimum = 1760 kg/m³
- II (Medium Density) Minimum = 2160 kg/m³
- III (High Density) Minimum = 2560 kg/m³

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ADRIANO S. NAOE
Lab Supervisor (C&S Dept.)
For AL HOTY-STANGER LTD.

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AL HOTY - STANGER	TEST REPORT	Our Ref.: RD-C-10678
الحوطي ALHOTY ستانجر STANGER ®	DETERMINATION OF COMPRESSIVE STRENGTH ON SANDSTONE	Date: 21 March 2019
	TEST METHOD: ASTM C 170 / C 170 M-17	Page: 3 of 4

Client	:	*DAHDOUH ARCH STONE FACTORY*
Project	:	*Product Control*
Sample ID.	:	*Sandstone*
Nominal Size	:	*140x140x36mm*
Source/Location	:	*Sample as provided by Client*
Test Required	:	*Compressive Strength*
Equiptment Used		*Comp. Machine: SN. 10081400, Digital Balance: 112401746*

Date Sample Received	:	*17 March 2019*
Date Sample Tested	:	*18 – 19 March 2019*
Sample Prepared by	:	*Client's Representative*
Sampling Method	:	-
Testing Performed by	:	*Ram/Ayub*
Testing Conducted at	:	*Riyadh Lab*
Test Method Variation	:	*Nil*

RESULTS:

Test Sample No.	Length (mm)	Width (mm)	Thickness (mm)	Load (kN)	Compressive Strength (MPa)
1	36	36	36	118.6	91.5
2	36	36	36	123.9	95.6
3	36	36	36	126.8	97.8
4	36	36	36	120.4	92.9
5	36	36	36	120.5	93.0
				Average:	**94.2**

Requirement of ASTM C 568 / C 568M-15

Specification for Limestone Dimension Stone for Compressive Strength

Compressive Strength (MPa)

- I (Low Density) Minimum = 12.0 MPa
- II (Medium Density) Minimum = 28.0 MPa
- III (High Density) Minimum = 55.0 MPa

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AL HOTY - STANGER	TEST REPORT	Our Ref.: RD-C-10678
الحوطي ALHOTY ستانجر STANGER ®	DETERMINATION OF MODULUS OF RUPTURE ON SANDSTONE	Date: 21 March 2019
	TEST METHOD: ASTM C 99 / C 99 M-18	Page: 4 of 4

Client	:	DAHDOUH ARCH STONE FACTORY
Project	:	Product Control
Sample ID.	:	Sandstone
Source/Location	:	Sample as provided by Client
Test Required	:	Modulus of Rupture
Equiptment Used	:	Flexural Mac.: RD/01/01
		Digital Balance: 112401746

Date Sample Received	:	17 March 2019
Date Sample Tested	:	18 – 19 March 2019
Sample Prepared by	:	Ram/Ayub
Sampling Method	:	-
Testing Performed by	:	Ram/Ayub
Testing Conducted at	:	Riyadh Lab
Test Method Variation	:	None

RESULTS:

Test Sample No.	Length (mm)	Width (mm)	Height (mm)	Span Length	Breaking Load (kN)	Modulus of Rupture (MPa)
1	200	100	30	133	2.12	4.7
2	200	100	30	133	2.06	4.6
3	200	100	30	133	2.01	4.4
					Average:	**4.6**

Requirement of ASTM C 568 / C 568M-15

Specification for Limestone Dimension Stone for Modulus of Rupture

Modulus of Rupture (MPa)

- I (Low Density) Minimum = 2.8 MPa
- II (Medium Density) Minimum = 3.4 MPa
- III (High Density) Minimum = 6.9 MPa

AL HOTY STANGER LTD CO. RIYADH C.R. 2051002999 Independent Laboratories & Materials Testing

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